Nam	e: _					Advanced Crop Science	
	luat	e the			t by checking the appropriate number or letter to indicate lect employability readiness rather than the grades give		
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3 2					can work independently with no supervision pervision – can perform job completely with limited supervision.	parvision	
1					ed – requires instruction and close supervision	Del VISIOII	
N					\mathbf{e} – requires instruction and close supervision \mathbf{e} – no experience or knowledge in this area		
	' '	10 1	мрс	,5 u i	e no experience of knowledge in this area		
ΙΩΤΙ	⊑. ⊤	ha a	odo	in n	arentheses is the competency identification number used	in computarized management systems	
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	3	2	1	N			
	_	_	_	11	The student has mastered the related competencies of A	Agricultural Science Land II	
					The student has mustered the related competencies of r	ignountaira science i and ii.	
	3	2	1	N	A. Overview	Notes:	
			-	11	I. Identify the major Missouri crops and their uses	Trotes.	
					(A001)		
					2. Explain the economic importance of crop		
					production (A002)		
					3. Identify career opportunities in crop science or		
					crop-related agribusiness (A003)		
					4. Explain government influence and identify current		
					trends in crop production (A004)		
					Other:		
	3	2	1	N	B. Plant Biology	Notes:	
					1. Compare and contrast the parts and functions of		
					monocot and dicot seeds and plants (B001)		
					2. Describe how growth stages affect crop		
					management practices (B002)		
					Other:		
	3	2	1	N	C. Soil Fertility and Management	Notes:	
					1. Identify how the composition of the soil affects		
					fertility (C001) 2. Identify how soil morphology affects cropping		
					options (C002)		
					3. Use soil test results to improve soil fertility and		
					crop production (C003)		
					4. Identify fertilizers and the applications needed to		
					obtain optimal crop performance (C004)		
					5. Identify how tillage and planting methods affect		
					soil fertility (C005)		
					6. Identify the conservation practices that affect crop		
					production (C006)		
					Other:		

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3	2	1	N	D. Identifying and Selecting Crops and Seeds	Notes:
				1. Identify crop and weed seeds and plants (D001)	
				2. Identify factors that determine crop selection	
				(D002)	
				3. Utilize seed tag information to select quality seed	
				(D003) Other:	
				Other:	
3	2	1	N	E. Safety, Environment, and Legal Issues	Notes:
	_	-	11	1. Identify potential crop production hazards to	110005
				operators/producers (E001)	
				2. Identify the environmental and governmental issues	
				that affect crop production (E002)	
				3. Identify the legal issues involved with crop	
				production (E003)	
				Other:	
	<u> </u>				
2	•	-	7a. 7	E Compand Control D. J. C.	NI-4
3	2	I	N	F. Corn and Grain Sorghum Production 1. Evaluate local growing conditions and determine	Notes:
				fertilizer needs for corn and grain sorghum production	
				(F001)	
				2. Select a corn and/or grain sorghum variety (F002)	
				2. select a com and or gram sorgham variety (1 002)	
				3. Determine tillage or planting methods for corn and	
				grain sorghum (F003)	
				4. Select a pest control program (F004)	
				5. Evaluate the growing crop and determine	
				appropriate solutions (F005)	
				6. Identify factors to determine harvesting and	
				postharvesting management (F006) 7. Describe marketing opportunities and how grade	
				requirements affect grain prices (F007)	
				8. Calculate cost per acre (F008)	
				o. Calculate cost per acre (1 000)	
				Other:	
3	2	1	N	G. Soybean Production	Notes:
				Evaluate local growing conditions and determine	
				fertilizer needs for soybean production (G001)	
				2. Select a soybean variety suitable for your area	
				(G002)	
				3. Determine tillage and/or planting method (G003)	
				4. Select a weed control program (G004)	
				2 (Soot)	
				5. Evaluate the growing crop and determine	
L				appropriate solutions (G005)	
				6. Identify factors to determine harvesting and	
				postharvesting management (G006)	
				7. Describe marketing opportunities (G007)	
		_		0.01.1.	
1	1			8. Calculate cost per acre (G008)	

Other:

3	2	1	N	H. Wheat and Small Grain Production	Notes:
				1. Evaluate local growing conditions and determine	
				fertilizer needs for wheat and small grain production	
				(H001)	
				2. Select wheat and other small grain varieties (H002)	
				3. Determine tillage or planting methods (H003)	
				4. Select a pest control program (H004)	
				5. Evaluate the growing crop and determine appropriate solutions (H005)	
				6. Identify factors to determine harvesting and postharvesting management (H006)	
				7. Describe marketing opportunities (H007)	
				8. Calculate cost per acre (H008)	
				Other:	

3	2	1	N	I. Forage Production	Notes:
				Evaluate local growing conditions for forage	
				production (I001)	
				2. Identify the different types of forages and select	
				forages appropriate for intended use (I002)	
				3. Identify the principles for establishing forages	
				(I003)	
				4. Identify the principles of managing and maintaining	
				forages (I004)	
				5. Identify various forage grazing methods (I005)	
				6. Identify the principle for producing forage seed (I006)	
				7. Identify the principles for harvesting and storing forages for feed (I007)	
				8. Describe marketing opportunities and calculate cost per acre (I008)	
				Other:	

3	2	1	N	J. Cotton Production	Notes:
				1. Evaluate local growing conditions (J001)	
				2. Select cotton variety with a local cotton consultant (J002)	
				3. Describe the tillage and planting method for cotton (J003)	
				4. Select a weed control program (J004)	
				5. Evaluate the growing crop and determine appropriate solutions (J005)	
				6. Identify factors to determine harvesting and postharvesting management (J006)	
				7. Describe marketing opportunities (J007)	
				8. Calculate cost per acre (J008)	
				Other:	

3	2	1	N	K. Rice Production	Notes:
				1. Evaluate local growing conditions and determine	
				fertilizer needs for rice production (K001)	
				2. Select rice variety and grade to be planted with a	
				local rice consultant (K002)	
				3. Describe the seedbed preparation (K003)	
				4. Evaluate the growing crop and determine	
				appropriate solutions (K004)	
				5. Identify factors to determine harvesting and	
				postharvesting management (K005)	
				6. Describe marketing opportunities (K006)	
				7. Calculate cost per acre (K007)	
				Other:	
	l		·		I
3	2	1	N	Leadership & Personal Development for	Notes:
				Advanced Students (Leadership Duty C)	
				1. Develop a resume and complete a job application (C001)	
				2. Develop a plan for finding a job (C002)	
				3. Describe how to apply and interview for a job (C003)	
				4. Describe the characteristics needed to develop	
				desirable personal and social skills (C004)	
				5. Describe the importance and process of developing	
				better human relationships (C005) Other:	
				Other.	
	1	4	N T	He're de M'erre ' Erre Ber'erre De el De de	Nicken
3	2	1	N	Using the Missouri Farm Business Record Book (SAE Duty D)	Notes:
				1. Describe the two types of accounting methods (D001)	
				2. Complete the forms needed to open the Missouri Farm Business Record Book (D002)	
				3. Develop a projected cash flow (D003)	
				4. Record receipts and expenditures in the Missouri Farm Business Record Book (D004)	
				5. Complete additional records in the Missouri Farm	
				Business Record Book (D005)	
				6. Complete the forms necessary to summarize the	
				Missouri Farm Business Record Book (D006)	
				7. Analyze the farm business using the Missouri Farm	
<u> </u>				Business Record Book (D007)	

Other: